

Table C.10-1. Summary of construction impacts by waste processing alternatives and options.^a

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Socioeconomics											
Direct employment	Number of jobs	20	90	850	870	680	360	400	330	200	290
Indirect employment	Number of jobs	20	90	880	900	700	370	420	340	210	300
Total employment	Number of jobs	40	180	1.7×10^3	1.8×10^3	1.4×10^3	730	820	670	410	590
Total earnings	1996 dollars	1.0×10^6	4.4×10^6	4.2×10^7	4.3×10^7	3.4×10^7	1.8×10^7	2.0×10^7	1.6×10^7	1.0×10^7	1.4×10^7
Air Resources											
Criteria pollutant emissions	Total tons	18	61	790	750	810	630	740	580	470	350
	Tons per year	3.5	18	250	250	240	180	200	160	120	59
Toxic air pollutant emissions	Total pounds	20	68	880	840	910	710	830	650	530	390
	Pounds per year	3.9	20	280	280	270	800	220	180	130	66
Fugitive dust emissions	Total tons	110	210	2.8×10^3	680	2.6×10^3	670	910	550	2.6×10^3	1.3×10^3
	Tons per year	22	46	490	200	430	190	240	150	420	220
Health and Safety											
Total campaign collective worker dose	Person-rem	72	72	120	120	120	110	110	110	120	NA ^b
Total worker latent cancer fatalities	Latent cancer fatalities	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	NA
Total recordable cases	Cases	4	14	200	240	170	86	81	88	100	230
Total lost workdays	Days	34	120	1.7×10^3	2.0×10^3	1.4×10^3	720	680	740	840	NR ^c
Utilities and Energy											
Potable water use	Million gallons per year	0.12	0.77	6.6	6.8	4.7	3.0	3.2	2.5	2.9	1.8
Baseline potable water use, INTEC operations	Million gallons per year	55	55	55	55	55	55	55	55	55	NA
Percent of baseline INTEC potable water use	Percentage	0.22	1.4	12	12	8.5	5.4	5.8	4.5	5.3	NA
Nonpotable water use	Million gallons per year	0.04	0.11	0.38	0.41	0.27	0.28	0.46	0.30	0.29	0.04
Baseline nonpotable water use, INTEC operations	Million gallons per year	400	400	400	400	400	400	400	400	400	NA

Table C.10-1. (Continued).

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Percent of baseline INTEC nonpotable water use	Percentage	0.01	0.03	0.09	0.1	0.07	0.07	0.12	0.07	0.07	NA
Electricity use	Megawatt-hours per year	180	3.4×10^3	3.3×10^3	6.5×10^3	2.9×10^3	4.0×10^3	4.0×10^3	900	1.1×10^3	2.9×10^3
Baseline INTEC electricity use	Megawatt-hours per year	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	NA
Percent of INTEC electricity use	Percentage	0.2	3.9	3.9	7.4	3.3	4.5	4.5	1.0	1.3	NA
Sanitary wastewater	Million gallons per year	0.12	0.77	6.6	6.8	4.7	3.0	3.2	2.5	2.9	1.8
Baseline INTEC sanitary wastewater	Million gallons per year	55	55	55	55	55	55	55	55	55	NA
Percent of baseline INTEC sanitary wastewater	Percentage	0.22	1.4	12	12	8.5	5.5	5.8	4.5	5.3	NA
Fossil fuel use	Million gallons per year	6.6×10^{-3}	0.04	0.43	0.41	0.45	0.35	0.39	0.30	0.23	0.09
Baseline INTEC fossil fuel use	Million gallons per year	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	NA
Percent of baseline INTEC fossil fuel use	Percentage	0.7	41	440	470	460	360	400	310	230	NA
Waste and Materials^d											
Mixed low-level waste generation ^e	Cubic meters	220	240	1.1×10^{3f}	1.1×10^3	1.1×10^{3f}	1.1×10^3	1.1×10^3	1.1×10^3	1.1×10^3	0
Low-level waste generation ^e	Cubic meters	0	20	330^f	210	210^f	260	340	310	110	0
Hazardous waste generation ^e	Cubic meters	0	30	790^f	880	280^f	790	560	640	340	20
Industrial waste generation ^e	Cubic meters	1.4×10^3	6.8×10^3	5.5×10^{4f}	6.0×10^4	3.9×10^{4f}	2.6×10^4	3.0×10^4	2.3×10^4	2.6×10^4	1.9×10^4

a. The categories of land use, traffic and transportation, and facility accidents do not have construction impacts.

b. NA = Not applicable or not assessed.

c. NR = Not reported.

d. Construction does not generate HLW, transuranic waste, or low-activity waste.

e. Values presented represent totals for the duration of the project.

f. This value represents the highest quantity among the disposal methods considered.

Table C.10-2. Summary of operations impacts by waste processing alternatives and options.

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Land Use											
Open land converted to industrial use for new facilities	Acres	0	0	22 ^a	0 ^a	22 ^a	0	0	0	22 ^a	52
Socioeconomics^b											
Direct employment	Number of jobs	70	280	440	480	320	460	530	330	330	740
Indirect employment	Number of jobs	170	500	790	860	570	820	930	590	590	1.3×10 ³
Total employment	Number of jobs	240	780	1.2×10 ³	1.3×10 ³	890	1.3×10 ³	1.5×10 ³	920	920	2.1×10 ³
Total earnings	1996 dollars	5.0×10 ⁶	1.6×10 ⁷	2.6×10 ⁷	2.8×10 ⁷	1.8×10 ⁷	2.7×10 ⁷	3.1×10 ⁷	1.9×10 ⁷	1.9×10 ⁷	4.3×10 ⁷
Air Resources											
Dose to offsite maximally-exposed individual	Millirem per year	6.0×10 ⁻⁴	1.7×10 ⁻³	1.2×10 ⁻⁴	1.8×10 ⁻³	6.0×10 ⁻⁵	1.8×10 ⁻³	1.7×10 ⁻³	8.9×10 ⁻⁴	9.5×10 ⁻⁴	2.8×10 ⁻⁵
Dose to noninvolved worker	Millirem per year	7.0×10 ⁻⁶	1.8×10 ⁻⁵	4.4×10 ⁻⁵	9.0×10 ⁻⁵	3.4×10 ⁻⁵	3.6×10 ⁻⁵	3.0×10 ⁻⁵	4.8×10 ⁻⁵	1.0×10 ⁻⁴	1.3×10 ⁻⁵
Collective dose to population within 50 miles of INTEC	Person-rem per year	0.03	0.09	5.6×10 ⁻³	0.1	3.1×10 ⁻³	0.1	0.1	0.05	0.05	1.3×10 ⁻³
Maximum ambient concentration of criteria air pollutant (highest percent of ambient air quality standard)	Percentage	16	16	17	17	16	16	16	16	16	NA
Prevention of Significant Deterioration increment consumption (highest percent of allowable increment in Class I area)	Percentage	39	43	47	53	44	44	44	40	39	NA
Prevention of Significant Deterioration increment consumption (highest percent of allowable increment in Class II area)	Percentage	28	28	29	29	29	28	28	28	28	NA

Table C.10-2. Summary of operations impacts by waste processing alternatives and options (continued).

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Maximum offsite concentration of carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration for carcinogens)	Percentage	1.8	2.9	12	14	5.8	5.1	4.3	2.4	1.2	NA
Maximum ambient (offsite or public road location) concentration of non-carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration)	Percentage	0.04	0.06	0.26	0.31	0.13	0.11	0.1	0.05	0.03	NA
Maximum onsite concentration of toxic air pollutant [highest percent of occupational exposure limit (8-hour time weighted average)]	Percentage	0.03	0.13	0.3	0.37	0.21	0.14	0.14	0.04	0.06	NA
Health and Safety											
Total campaign collective worker dose	Person-rem	490	760	1.1×10^3	1.5×10^3	980	1.3×10^3	1.6×10^3	870	1.1×10^3	350
Total worker latent cancer fatalities	Latent cancer fatalities	0.19	0.30	0.44	0.61	0.39	0.51	0.64	0.35	0.42	0.14
Integrated non-involved worker dose	Millirem	2.5×10^{-4}	2.0×10^{-4}	9.2×10^{-4}	8.6×10^{-4}	7.1×10^{-4}	5.8×10^{-4}	3.6×10^{-4}	1.3×10^{-3}	1.4×10^{-3}	2.3×10^{-5}
Integrated offsite maximally-exposed-individual dose	Millirem	0.02	0.02	2.5×10^{-3}	6.3×10^{-3}	1.3×10^{-3}	0.02	0.02	0.03	0.02	5.0×10^{-5}
Total recordable cases	Cases	44	120	350	430	270	290	330	260	240	27
Total lost workdays	Days	310	860	2.5×10^3	3.1×10^3	1.9×10^3	2.0×10^3	2.3×10^3	1.8×10^3	1.7×10^3	NR
Utilities and Energy											
Potable water use	Million gallons per year	1.4	2.7	4.0	5.8	2.8	3.8	4.8	2.9	2.8	4.8
Baseline potable water use, INTEC operations	Million gallons per year	55	55	55	55	55	55	55	55	55	NA

Table C.10-2. Summary of operations impacts by waste processing alternatives and options (continued).

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Percent of baseline INTEC potable water use	Percentage	2.5	4.9	7.2	11	5.1	6.9	8.7	5.3	5.1	NA
Nonpotable water use	Million gallons per year	14	62	5.0	69	53	89	62	6.3	6.3	500
Baseline nonpotable water use, INTEC operations	Million gallons per year	400	400	400	400	400	400	400	400	400	NA
Percent of baseline INTEC nonpotable water use	Percentage	3.5	16	1.3	17	13	22	16	1.6	1.6	NA
Electricity use	Megawatt-hours per year	1.2×10^4	1.8×10^4	4.0×10^4	5.0×10^4	2.9×10^4	3.3×10^4	2.8×10^4	3.9×10^4	2.5×10^4	6.6×10^5
Baseline INTEC electricity use	Megawatt-hours per year	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	8.8×10^4	NA
Percent of INTEC electricity use	Percentage	13	20	45	57	33	38	32	44	28	NA
Sanitary wastewater	Million gallons per year	1.4	2.7	4.0	5.8	2.8	3.8	4.8	2.9	2.8	4.8
Baseline INTEC sanitary wastewater	Million gallons per year	55	55	55	55	55	55	55	55	55	NA
Percent of baseline INTEC sanitary wastewater	Percentage	2.5	4.9	7.2	11	5.1	6.9	8.7	5.2	5.1	NA
Fossil fuel use	Million gallons per year	0.64	1.9	4.5	6.3	2.2	2.8	2.5	1.1	0.49	1.3
Baseline INTEC fossil fuel use	Million gallons per year	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	NA
Percent of baseline INTEC fossil fuel use	Percentage	640	1.9×10^3	4.5×10^3	6.3×10^3	2.2×10^3	2.8×10^3	2.5×10^3	1.1×10^3	490	NA
Waste and Materials^c											
Mixed low-level waste generation	Cubic meters	1.3×10^3	3.2×10^3	5.8×10^3	7.9×10^3	5.2×10^{3d}	6.4×10^3	8.6×10^3	6.0×10^3	5.7×10^3	0
Low-level waste generation	Cubic meters	190	9.5×10^3	1.2×10^3	1.0×10^4	960	1.0×10^4	1.0×10^4	750	700	1.5×10^3
Hazardous waste generation	Cubic meters	0	0	1.6×10^3	1.2×10^3	960	4	4	4	40	23
Industrial waste generation	Cubic meters	1.4×10^4	1.9×10^4	5.3×10^4	5.2×10^4	4.3×10^4	4.3×10^4	5.0×10^4	4.2×10^4	3.5×10^4	6.7×10^3

Table C.10-2. Summary of operations impacts by waste processing alternatives and options (continued).

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Traffic and Transportation											
Estimated total latent cancer fatalities from cargo related incident-free HLW transportation	Latent cancer fatalities										
Truck		NA	0.01	0.08	0.09	0.23	0.47	1.5	0.98	0.55	NA
Rail		NA	9.1×10^{-5}	5.0×10^{-4}	6.3×10^{-4}	7.6×10^{-3}	9.4×10^{-4}	2.8×10^{-3}	2.1×10^{-3}	1.7×10^{-3}	NA
Estimated total number of latent cancer fatalities from cargo related transportation accidents	Latent cancer fatalities										
Truck		NA	5.0×10^{-5}	8.9×10^{-5}	1.5×10^{-4}	0.093	5.1×10^{-6}	0.023	1.5×10^{-6}	0.018	NA
Rail		NA	2.1×10^{-6}	1.8×10^{-5}	2.2×10^{-5}	0.037	2.2×10^{-6}	1.3×10^{-3}	7.8×10^{-8}	2.8×10^{-3}	NA
Estimated total number of vehicle related traffic fatalities from transportation accidents	Fatalities										
Truck		NA	8.9×10^{-3}	0.087	0.12	0.98	0.21	0.64	0.44	0.33	NA
Rail		NA	2.1×10^{-3}	0.026	0.030	0.13	0.038	0.11	0.080	0.062	NA
Facility Accidents											
Estimated maximum latent cancer fatalities within 50 miles population from bounding accident	Latent cancer fatalities										
Abnormal event		0.65	0.65	2.8×10^{-5}	2.8×10^{-5}	0.04	2.8×10^{-5}	2.8×10^{-5}	2.8×10^{-5}	1.3×10^{-3}	NA
Design basis		33	33	1.8	2.9	4.0	2.9	2.9	7.0×10^{-3}	0.06	NA
Beyond design basis		1.8	1.8	600	600	4.0	1.8	5.6	3.3	26	NA
Estimated maximum population dose from bounding accident	Person-rem										
Abnormal event		1.3×10^3	1.3×10^3	0.06	0.06	71	0.06	0.06	0.06	2.6	NA
Design basis		6.6×10^4	6.6×10^4	3.5×10^3	5.9×10^3	7.9×10^3	5.9×10^3	5.9×10^3	14	120	NA
Beyond design basis		3.5×10^3	3.5×10^3	6.0×10^5	6.0×10^5	7.9×10^3	3.5×10^3	1.1×10^4	6.6×10^3	5.3×10^4	NA
Estimated dose to maximally-exposed individual from bounding accident	Millirem										

Table C.10-2. Summary of operations impacts by waste processing alternatives and options (continued).

	Units	No Action Alternative	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative	
				Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	At INEEL	At Hanford
Abnormal event		170	170	5.3×10^{-3}	5.3×10^{-3}	5.8	5.3×10^{-3}	5.3×10^{-3}	5.3×10^{-3}	0.25	NA
Design basis		9.7×10^3	9.7×10^3	460	350	1.3×10^3	350	350	1.6	3.0	NA
Beyond design basis		420	420	6.8×10^4	6.8×10^4	1.3×10^3	460	1.0×10^3	730	4.9×10^3	NA
Estimated maximum dose to noninvolved worker from bounding accident	Millirem										
Abnormal event		1.2×10^4	1.2×10^4	0.36	0.36	390	0.36	0.36	0.36	17	NA
Design basis		6.6×10^5	6.6×10^5	3.2×10^4	2.4×10^4	8.6×10^4	2.4×10^4	2.4×10^4	110	210	NA
Beyond design basis		2.9×10^4	2.9×10^4	4.6×10^6	4.6×10^6	8.6×10^4	3.2×10^4	7.1×10^4	5.0×10^4	3.4×10^5	NA

a. Low-Activity Waste Disposal Facility.

b. Values presented are for peak year.

c. Values presented are totals for the duration of the project.

d. This value represents the highest quantity among the disposal methods considered.

Table C.10-3. New facility disposition data.

	Units	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative
			Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	
Socioeconomics									
Direct employment	Number of jobs	110	910	830	830	750	850	690	630
Indirect employment	Number of jobs	110	1.1×10^3	860	870	780	880	700	660
Total employment	Number of jobs	220	2.1×10^3	1.7×10^3	1.7×10^3	1.5×10^3	1.7×10^3	1.4×10^3	1.3×10^3
Total earnings	1996 dollars	6.2×10^6	5.3×10^7	4.8×10^7	4.8×10^7	4.3×10^7	4.9×10^7	3.9×10^7	3.6×10^7
Air Resources									
Dose to maximum offsite individual	Millirem per year	1.1×10^{-10}	3.3×10^{-10}	3.9×10^{-10}	4.7×10^{-10}	1.8×10^{-10}	1.3×10^{-10}	1.4×10^{-10}	5.6×10^{-10}
Dose to non-involved worker	Millirem per year	2.0×10^{-11}	6.0×10^{-11}	7.0×10^{-11}	1.4×10^{-10}	3.7×10^{-11}	2.1×10^{-11}	2.8×10^{-11}	1.6×10^{-10}
Collective dose to population within 50 miles of INTEC	Person-rem per year	3.4×10^{-9}	1.0×10^{-8}	1.2×10^{-8}	1.1×10^{-8}	4.7×10^{-9}	3.8×10^{-9}	3.9×10^{-9}	1.3×10^{-8}
Maximum ambient concentration of criteria air pollutant (highest percent of ambient air quality standard)	Percentage	18	22	24	21	22	22	21	22
Maximum offsite concentration of carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration for carcinogens)	Percentage	0.65	2.1	2.6	1.8	1.9	2.1	1.7	2.0
Maximum ambient (offsite or public road location) concentration of non-carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration)	Percentage	0.13	0.43	0.53	0.36	0.38	0.43	0.35	0.4
Maximum onsite concentration of toxic air pollutant [highest percent of occupational exposure limit (8-hour time weighted average)]	Percentage	6.5	21	26	18	19	21	17	20
Health And Safety									
Estimated latent cancer fatalities in involved worker population	Latent cancer fatalities	0.05	0.10	0.10	0.08	0.09	0.10	0.06	0.05
Total recordable cases	Cases	25	80	80	55	80	78	67	47
Total lost workdays	Days	200	660	690	460	680	650	560	390
Utilities and Energy^a									
Potable water use	Million gallons per year	1.2	5.2	5.6	4.2	4.9	5.5	3.8	3.5
Nonpotable water use	Million gallons per year	0.80	1.8	3.1	1.7	2.6	1.8	1.2	1.4
Electricity use	Megawatt-hours per year	490	1.3×10^3	1.8×10^3	1.1×10^3	1.4×10^3	1.4×10^3	1.1×10^3	1.1×10^3

Table C.10-3. (Continued).

	Units	Continued Current Operations Alternative	Separations Alternative			Non-Separations Alternative			Minimum INEEL Processing Alternative
			Full Separations Option	Planning Basis Option	Transuranic Separations Option	Hot Isostatic Pressed Waste Option	Direct Cement Waste Option	Early Vitrification Option	
Sanitary wastewater	Million gallons per year	1.2	5.2	5.6	4.2	4.9	5.5	3.8	3.5
Fossil fuel use	Million gallons per year	0.21	0.84	1.0	0.69	0.79	0.82	0.65	0.42
Waste and Materials									
Mixed low-level waste	Cubic meters	11	550 ^a	480 ^d	350 ^b	340	350	480	140
Low-level waste	Cubic meters	5,600	6.8×10 ^{4b}	7.3×10 ^{4c}	4.4×10 ^{4b}	5.0×10 ⁴	4.9×10 ⁴	4.1×10 ⁴	1.5×10 ⁴
Hazardous waste	Cubic meters	260	28 ^a	290	30 ^b	340	410	160	56
Industrial waste	Cubic meters	4,800	6.7×10 ^{4b}	7.2×10 ^{4c}	4.1×10 ^{4a}	6.8×10 ⁴	9.5×10 ⁴	8.0×10 ⁴	2.8×10 ⁴

a. Peak annual values.

b. Onsite grout disposal facility.

c. Offsite disposal of Class A grout.

Table C.10-4. Existing facility disposition data.

	Units	Alternatives							
		Clean closure		Performance based closure		Closure to landfill standards		Performance based closure with Class A grout disposal	Performance based closure with Class C grout disposal
		Tank	Farm Bin Sets	Tank	Farm Bin Sets	Tank	Farm Bin Sets	Tank	Farm Bin Sets
Socioeconomics									
Direct employment	Number of jobs	300	60	20	50	10	30	10	10
Indirect employment	Number of jobs	300	60	20	60	10	30	10	10
Total employment	Number of jobs	600	120	40	110	20	60	20	20
Total earnings	1996 dollars	1.6×10^7	3.4×10^6	1.2×10^6	3.2×10^6	7.0×10^5	1.6×10^6	7.0×10^5	6.0×10^5
Air resources - Tank Farm									
Dose to offsite maximally-exposed individual ^a	Millirem per year	1.2×10^{-9}		1.5×10^{-10}		1.1×10^{-9}		1.5×10^{-10}	1.5×10^{-10}
Dose to noninvolved worker	Millirem per year	1.2×10^{-9}		1.5×10^{-10}		1.1×10^{-9}		1.5×10^{-10}	1.5×10^{-10}
Collective dose to population within 50 miles of INTEC	Person-rem per year	3.1×10^{-8}		3.8×10^{-9}		2.8×10^{-8}		3.9×10^{-9}	3.9×10^{-9}
Maximum ambient concentration of criteria air pollutant (highest percent of ambient air quality standard)	Percentage	17		16		16		16	16
Maximum offsite concentration of carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration for carcinogens)	Percentage	0.19		0.04		0.03		0.02	0.02
Maximum ambient (offsite or public road location) concentration of non-carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration)	Percentage	0.04		8.0×10^{-3}		5.0×10^{-3}		5.0×10^{-3}	5.0×10^{-3}
Maximum onsite concentration of toxic air pollutant [highest percent of occupational exposure limit (8-hour time weighted average)]	Percentage	1.9		0.37		0.26		0.23	0.23

Table C.10-4. Existing facility disposition data (continued).

	Units	Alternatives				
		Clean closure	Performance based closure	Closure to landfill standards	Performance based closure with Class A grout disposal	Performance based closure with Class C grout disposal
		Air resources – Bin sets				
Dose to offsite maximally-exposed individual	Millirem per year	1.0×10^{-10}	1.3×10^{-10}	9.2×10^{-10}	1.3×10^{-10}	1.3×10^{-10}
Dose to noninvolved worker	Millirem per year	2.3×10^{-11}	3.0×10^{-11}	2.2×10^{-10}	3.0×10^{-11}	3.0×10^{-11}
Collective dose to population within 50 miles of INTEC	Person-rem per year	5.5×10^{-9}	7.2×10^{-9}	5.1×10^{-8}	7.2×10^{-9}	7.2×10^{-9}
Maximum ambient concentration of criteria air pollutant (highest percent of ambient air quality standard)	Percentage	16	16	16	16	16
Maximum offsite concentration of carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration for carcinogens)	Percentage	9.0×10^{-3}	8.0×10^{-3}	8.0×10^{-3}	0.01	0.01
Maximum ambient (offsite or public road location) concentration of non-carcinogenic toxic air pollutant (highest percent of State of Idaho acceptable air concentration)	Percentage	2.0×10^{-3}	2.0×10^{-3}	2.0×10^{-3}	2.0×10^{-3}	2.0×10^{-3}
Maximum onsite concentration of toxic air pollutant [highest percent of occupational exposure limit (8-hour time weighted average)]	Percentage	0.09	0.08	0.08	0.12	0.12

Table C.10-4. Existing facility disposition data (continued).

	Units	Alternatives									
		Clean closure			Performance based closure			Closure to landfill standards		Performance based closure with Class A grout disposal	
		Tank	Farm	Bin Sets	Tank	Farm	Bin Sets	Tank	Farm	Bin Sets	Tank
Health and Safety											
Estimated latent cancer fatalities in involved worker population	Latent cancer fatalities	3.0	0.38		0.10	0.34		0.09	0.16	0.12	0.38
Total recordable cases	Cases	290	60		10	37		6	22	9	3
Total lost workdays	Days	2,400	500		76	310		59	180	97	360
Utilities and Energy											
Potable water use	Million gallons per year	2.0	0.32		0.11	0.31		0.06	0.15	0.13	0.52
Nonpotable (process) water use	Million gallons per year	0.05	3.9×10^{-3}		0.06	0.01		0.09	0.01	0.05	0.03
Electricity use	Megawatt-hours per year	7.3×10^3	3.2×10^3		4.4×10^3	6.0×10^3		1.2×10^3	990	4.6×10^3	1.5×10^3
Sanitary wastewater	Million gallons per year	2.0	0.32		0.13	0.32		0.10	0.16	0.14	0.52
Fossil fuel use	Million gallons per year	0.08	3.9×10^{-3}		0.02	6.6×10^{-3}		0.01	5.2×10^{-3}	0.01	5.2×10^{-3}
Waste and Materials											
Mixed low-level waste	Cubic meters	1.1×10^4	180		120	85		480	33	120	540
Low-level waste	Cubic meters	1.1×10^3	4.6×10^3		0	150		0	150	0	0
Hazardous waste	Cubic meters	0	130		79	100		0	100	27	28
Industrial waste	Cubic meters	1.6×10^5	2.4×10^4		1.9×10^3	3.6×10^3		1.7×10^3	3.6×10^3	1.5×10^3	1.5×10^4